

As a below named inventor, I hereby declare that:

This declaration is original.

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION EVENTS

the specification of which (I authorize Choate, Hall & Stewart to check one of the following, three choices, and fill in the blanks, if applicable):

	is attached hereto.				
	was filed on May 1	9, 1999 as Application Serial	No		and amended
was amended u	was filed as PCT in nder PCT Article 19	ternational application No	(if appli	cable).	, on and
•		viewed and understood the coas amended by any amendment			
	_	lisclose information which is Fitle 37, Code of Federal Re			camination of
foreign applicate below any foreign	tion(s) for patent or	ity benefits under Title 35, Univentor's certificate listed beatent or inventor's certificate prity is claimed:	elow and	have also	o identified
Prior Foreign A	Application(s):		Priority	Claimed	
(Number)	(Country)	(Day/Month/Year/Filed)	Yes	No	
(Number)	(Country)	(Day/Month/Year/Filed)	- Ves	No	

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of

America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Provisional Application(s):		
Application Number	Filing Date	Status
Other Application(s)		
Application Number	Filing Date	Status
Application Number	Filing Date	Status
PCT Applications designat	ing the United States:	
(PCT Appl. No.)	(U.S.S.N.)	(status-patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Sam Pasternack, Reg. No. 29,576; David J. Powsner, Reg. No. 31,868; Brenda Herschbach Jarrell, Reg. No. 39,223; Kevin M. Tormey, Reg. No. 41,351; Karoline K.M. Shair, Reg. No. 44,332; and Elizabeth E. Nugent, Reg. No. 43,839.

Address all telephone calls to Sam Pasternack at telephone no. (617) 248-5000.

Address all correspondence to <u>Sam Pasternack</u>, Choate, Hall & Stewart, Exchange Place, 53 State Street, Boston, Massachusetts 02109-2891.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United State Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Exchange.3009596.1

Full name of first inventor: Robert S. Langer
Inventor's signature: Date:
Residence: 77 Lombard Street, Newton, MA 02158
Citizenship: USA
Post Office Address: MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge, MA
Full name of second inventor: Scott M. Cannizzaro
Inventor's signature: Date:
Residence: 24 Tracey Road, Cotuit, MA
Citizenship: USA
Post Office Address: MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge, MA
Full name of third inventor: Bernhard G. Mueller
Inventor's signature: Date:
Residence: Grieustrasse 41, CH-4055 Basel, Switzerland
Citizenship: Switzerland
Post Office Address: MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge, MA
Full name of fourth inventor: Kevin Shakesheff
Inventor's signature: Date:
Residence: 44 South Street, Draycott, Derby, United Kingdom
Citizenship: <u>U.K. Citizen</u>
Post Office Address: MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge, MA

## **ASSIGNMENT**

WHEREAS, We, Robert S. Langer of Newton, Massachusetts; Scott M. Cannizzaro of Cotuit, Massachusetts; Berhard G. Mueller of Basel, Switzerland; and Kevin Shakesheff of Draycott, Derby U.K., having invented certain new and useful improvements in MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION EVENTS for which we will make application for United States Letters Patent; and

WHEREAS, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, having offices at 77 Massachusetts Avenue, Cambridge, Massachusetts, and its successors and assigns (collectively hereinafter called "the Assignee"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledge, I do hereby sell assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may granted therefore, and all divisions, reissues, substitutions, continuations; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to the said ASSIGNEE of my entire right, title and interest.

I also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I hereby further agree that I will communicate to said ASSIGNEE, or to its successors, assigns and legal representative, any facts known to me respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

IN WITNESS WHEREOF, I hereto set my hand and se	eal at	
this day of	, 1999.	
Robert S. Langer		

STATE OF		
COUNTY OF		SS. 
Langer known to me to be t	the person wl	, 1999, personally appeared Robert S. nose name of subscribed to the foregoing Assignment ame as his free act and deed for the purposes therein
[Notary's Seal Here]		NOTARY PUBLIC My Commission Expires:
IN WITNESS WHEREOF	, I hereto set	my hand and seal at,, 1999.
	Scott	M. Cannizzaro
STATE OF		SS.
M. Cannizzaro known to m	e to be the p	, 1999, personally appeared Scott erson whose name of subscribed to the foregoing ecuted the same as his free act and deed for the
[Notary's Seal Here]		NOTARY PUBLIC My Commission Expires:

IN WITNESS WHEREOF,	this	day of	, 1999.
<u>-</u>			
I	Bernhard G.	Mueller	
TOWN of	<del></del> ,		
JAPAN			
Before me this da Mueller known to me to be the Assignment and acknowledged purposes therein contained.	ne person wh	ose name of subscribed	
[Notary's Seal Here]		NOTARY PUBLIC My Commission Expire	es:
IN WITNESS WHEREOF,	I hereto set n	ny hand and seal at day of	, 1999.
F	Kevin Shakes	heff	
STATE OF			
COUNTY OF		SS. _·	
Before me this Shakesheff known to me to be Assignment and acknowledged purposes therein contained.	e the person	whose name of subscrib	
		 NOTARY PUBLIC	
[Notary's Seal Here]		My Commission Expire	

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